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NOTICE OF ALLOWANCE AND FEE(S) DUE

48356

7590

01/27/2009

MCNEELY BODENDORF LLP P.O. BOX 34175 WASHINGTON, DC 20043 EXAMINER

DAVENPORT, MON CHERI S

ART UNIT PAPER NUMBER

2416 DATE MAILED: 01/27/2009

I	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/612,141	07/02/2003	Kyung-Hun Jang	12000.SMG.0022	3347

TITLE OF INVENTION: RELIABLE MULTICAST DATA RETRANSMISSION METHOD BY GROUPING WIRELESS TERMINALS IN WIRELESS

COMMUNICATION MEDIUM AND APPARATUS FOR THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new c	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current r (b) indicating a sepa	correspo arate "FE	ondence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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MCNEELY BOY 3417. P.O. BOX 3417. WASHINGTON		I her State addr trans	certify that the Postal Service wessed to the Mail smitted to the USP	tificate is Fee(vith suf Stop FO (57	e of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	mission g deposite st class m above, c ate indica	ed with the United nail in an envelope or being facsimile ated below.		
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/612,141	07/02/2003	•	Kyung-Hun Jang	g		12	2000.SMG.0022		3347
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	04/27/2009	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	3					
DAVENPORT,	MON CHERI S	2416	370-312000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			registered attorney or agent) and the names of up to						
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON ' ified below, no assignee oletion of this form is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (C	he pa g an a	attent. If an assign assignment. and STATE OR C	OUNT			
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY statu		_				ΓΙΤΥ status. See 37 Cl		
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan tl	ne applicant; a regi	stered :	attorney or agent; or th	ne assigne	ee or other party in
Authorized Signature					Date				
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an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu/irginia 22313-1450. DC 313-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	1.14. This collection is depending upon the second control of the control of the complete com	s est indiv office S TC	imated to take 12 i idual case. Any co r, U.S. Patent and DTHIS ADDRESS	ninutes mment Traden S. SENI	s to complete, including to the amount of time to the second of the control of th	ng gatheri me you ro artment o for Paten	ing, preparing, and equire to complete of Commerce, P.O. ts, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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48356 75	90 01/27/2009	EXAMINER			
MCNEELY BOD	ENDORF LLP	DAVENPORT, MON CHERI S			
P.O. BOX 34175		ART UNIT	PAPER NUMBER		
WASHINGTON, I	OC 20043		2416		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 833 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 833 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/612,141	JANG ET AL.
Notice of Allowability	Examiner	Art Unit
	MON CHERI S. DAVENPORT	2416
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
2. X The allowed claim(s) is/are Claims 1-6, 6-9, 11-13, and 15-	<u>-19 renumbered as 1-16</u> .	
3.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declar est be submitted. son's Patent Drawing Review (PTO . s Amendment / Comment or in the e .84(c)) should be written on the draw he header according to 37 CFR 1.121	r national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient. 9-948) attached Office action of ings in the front (not the back) of (d).
attached Examiner's comment regarding REQUIREMENT Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	FOR THE DEPOSIT OF BIOLOGIC 5. □ Notice of Informal I 6. □ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amend	Patent Application y (PTO-413), ate

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Art Unit: 2416

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andrew F. Bodendorf on January 16, 2009.

The application has been amended as follows:

Claim 2 line 2, delete "," After "group".

Claim 2 line 3, delete "," After "amplitude".

Claim 3 line 14, delete "." After "packets".

Claim 4, line 10 insert -- , -- after "packets".

Claim 10 is cancelled.

Allowable Subject Matter

- 1. **Claims 1-6, 6-9, 11-13, and 15-19 renumbered as 1-16** allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. Claims 1, 3, 4, 6, and 8 are allowed because the closest prior art, Paul et al ("Reliable Multicast Transport Protocol (RMTP)), fails to anticipate or render obvious the concept of reducing packet loss during multicast data transmission in a wireless communication environment by retransmitting by the repeater terminal in each group according to the arranged order the multicast packets to each of the terminal in the group, in combination with all other limitations in the claim (s) as defined by applicant.

Art Unit: 2416

Paul et al. discloses reliable multicast method, but does not retransmitting by the repeater terminal in each group according to the arranged order the multicast packets to each of the terminals in the group.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MON CHERI S. DAVENPORT whose telephone number is (571)270-1803. The examiner can normally be reached on Monday - Friday 8:00 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2416

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin C. Harper/ Primary Examiner, Art Unit 2416

/Mon Cheri S Davenport/ Examiner, Art Unit 2416 January 17, 2009